

Find pairs of values

1 a) Here is an equation.

$$\text{circle} + \text{square} = 12$$

Find six possible pairs of values for the circle and square.

b) Here is another equation.

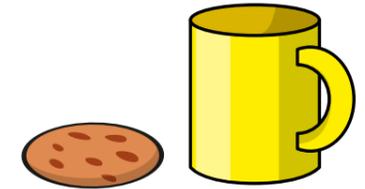
$$x + y = 12$$

Find six possible pairs of values for x and y .

x						
y						

c) What is the same and what is different about part a) and part b)?

2 Kim buys these two items from a cafe.
The total cost is 90p.



a) What could the cost of each item be?

Compare answers with a partner.

b)



A coffee could cost 90p.

Is this possible? _____

Explain your answer.

3 a and b are whole numbers.

$$a + b = 8$$

Complete the table to show different possible values for a and b .

a	0	1	2						
b									
$a + b$	8	8							

What patterns do you notice?



- 4 c and d are both numbers less than 20

$$c - d = 4$$

Complete the table to show possible values for c and d .

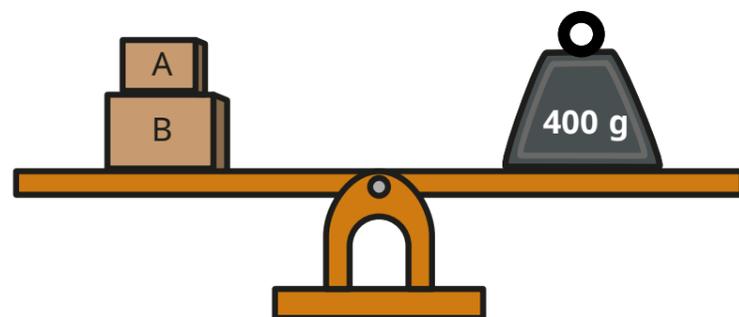
c									
d									
$c - d$									

- 5 a and b are integers.

$$ab = 24$$

List all the possible values for a and b .

- 6 Some scales are balanced.



What could the masses of the boxes be?

A = B =

- 7 g and h are both integers less than 10

$$g + 2h = 20$$

List all the possible pairs of values for g and h .

- 8 Eva is plotting co-ordinates (x, y) on a grid.
She is only plotting co-ordinates where $x + y = 10$
Plot all the points that Eva can plot on the grid.

